Maternity Core Data Index

Data Item, Basis, Explanation and Values

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Data items: 214

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REFERENCE DATASETS

ANSAB	Antenatal Screening Advisory Board
BAPM	British Association of Perinatal Medicine
BNDS	Birth Notification Data Set
CAR	WM Congenital Anomalies Register
CDS	Commissioning Data Set
CEMD	Confidential Enquiry into Maternal Deaths
CESDI	Confidential Enquiry into Stillbirths and Deaths in Infancy
ENN	EuroNeoNet
GROW	Gestation Related Optimal Weight
HES	Hospital Episode Statistics
HOI	Health Outcome Indicators – Normal Pregnancy and Childbirth
M-PAG	Maternity Professional Advisory Group – West Midlands
N-PAG	Neonatal Professional Advisory Group – West Midlands
NICE	National Institute for Clinical Excellence
NSC	National Screening Committee
RCOG	Royal College of Obstetricians and Gynaecologists
RCPCH	Royal College of Paediatrics and Child Health
RCR	Royal College of Radiologists
RUG	Regional Ultrasound Group
SS	SureStart

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2. LABOUR
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   a) Significant early postpartum haemorrhage (PPH)
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   c) Skin to skin contact
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1. DELIVERY
   a) Place of delivery
   b) Hospital code
   c) Date & time of birth
   d) Gestation at delivery
   e) Lie/presentation before birth
   f) Delivery mode
   g) Analgesia / Anaesthesia for birth
   h) Caesarean primary reason
   i) Live or stillbirth
   j) Gender
   k) Birth weight
   l) Birth order
   m) Customised centile
   n) NHS Baby number
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A1. MATERNAL DETAILS - Demographics

DATA ITEM	**NHS Number**
BASIS	Unique person identifier
EXPLANATION	Unique identifier for use at all levels and for record linkage with maternal data
INPUT OPTIONS	3-3-4 numerical format
DATA ORIGIN	BAPM, BNDS, CAR, CEMD, CESDI, CNST, HES, M-PAG, N-PAG

DATA ITEM	**Hospital number**
BASIS	Hospital record identifier
EXPLANATION	Facilitates tracking of patient notes/records within the hospital departments
INPUT OPTONS	Numerical format
DATA ORIGIN	CDS, CEMD, CESDI, HES, M-PAG

DATA ITEM	**Surname**
BASIS	Aids identification in absence of the NHS number
EXPLANATION	Requirement for NN4B
INPUT OPTIONS	Free text to document details
DATA ORIGIN	BNDS, CEMD, CESDI, M-PAG

DATA ITEM	**Forename**
BASIS	Aids identification in the absence of the NHS number
EXPLANATION	Requirement for NN4B
INPUT OPTIONS	Free text to document details
DATA ORIGIN	BNDS, CEMD, CESDI, M-PAG

DATA ITEM	**Date of Birth**
BASIS	To ascertain age for screening tests and age at delivery
EXPLANATION	Requirement for NN4B
INPUT OPTIONS	DD/MM/YYYY
DATA ORIGIN	BNDS, CAR, CDS, CEMD, CESDI, HES, M-PAG, SS

DATA ITEM	**Address**
BASIS	Aids identification in absence of the NHS number
EXPLANATION	Requirement for NN4B
INPUT OPTIONS	Free text to document details
DATA ORIGIN	BNDS, CEMD, CESDI, HES, M-PAG

A1. MATERNAL DETAILS - Demographics

DATA ITEM	**Postcode of mother at time of delivery**
BASIS	Identification of residence at time of birth
EXPLANATION	To derive geographical distribution of babies
	Link to district code to compare with ONS data
	To derive deprivation score
INPUT OPTIONS	Alphanumerical format (Post Office Preferred Format)
DATA ORIGIN	BAPM, CAR, CDS, CEMD, CESDI, HES, M-PAG, SS

DATA ITEM	**Geographical Ethnic Origin (GEO)**
BASIS	Classification by origin to support medical data
EXPLANATION	The current ONS/Census groupings do not meet requirements for medical data. In the perinatal field, this includes detailing maternal ethnic origin when assessing fetal growth (as recommended by RCOG guidelines) and identifying those at risk for haemoglobinopathy screening. The GEO classification is now used across the West Midlands. However, the options do map to ONS requirements for NN4B submissions.

INPUT OPTIONS   Pick list within each group

Africa

- North Africa
- SubSahara
- Other

Asia

- India
- Pakistan
- Bangladesh
- China
- Far East Asia – Other
- South East Asia
- Other

Caribbean

Europe

- Britain
- Ireland
- Northern Europe
- Western Europe
- Southern Europe
- Other

Middle East

Other

DATA ORIGIN   BNDS, CAR, CDS, CEMD, CESDI, GROW, HES, M-PAG, NSC

A2. MATERNAL DETAILS – General Practitioner details

DATA ITEM	**GP Name**
BASIS	GP identifier
EXPLANATION	Conditional requirement for NN4B
INPUT OPTIONS	Linked to National GP database
DATA ORIGIN	BNDS, CEMD, HES, M-PAG, N-PAG

DATA ITEM	**GP Code**
BASIS	Unique GP identifier
EXPLANATION	Requirement for NN4B
INPUT OPTIONS	Linked to National GP database
DATA ORIGIN	BNDS, CDS, CEMD, HES, M-PAG, N-PAG

DATA ITEM	**Practice name**
BASIS	Practice location identifier
EXPLANATION	Conditional requirement for NN4B
INPUT OPTIONS	Linked to National GP database
DATA ORIGIN	BNDS, CEMD, M-PAG, N-PAG

DATA ITEM	**Practice code**
BASIS	Practice location identifier
EXPLANATION	Requirement for NN4B
INPUT OPTIONS	Linked to National GP database
DATA ORIGIN	BNDS, CEMD, M-PAG, N-PAG

DATA ITEM	**Practice address**
BASIS	Location of practice
EXPLANATION	Conditional requirement for NN4B
INPUT OPTIONS	Linked to National GP database
DATA ORIGIN	BNDS, CEMD, M-PAG, N-PAG

DATA ITEM	**Child Health Organisation Code**
BASIS	Link to Child Health system
EXPLANATION	Requirement for NN4B
INPUT OPTIONS	Alphanumerical format
DATA ORIGIN	BNDS, M-PAG

B1. HISTORY & BOOKING – Past History

DATA ITEM	**Pre-pregnancy diabetes**
BASIS	To identify glucose intolerance existing outside of pregnancy that requires medication
EXPLANATION	Clinical factor relevant to pregnancy care and outcome
INPUT OPTIONS	None
	Requires oral hypoglycaemics
	Requires insulin
DATA ORIGIN	CEMD, CESDI, M-PAG

DATA ITEM	**Epilepsy history**
BASIS	To identify seizures of any kind, petit mal or grand mal, and requiring neurological investigation
EXPLANATION	Clinical factor relevant to pregnancy care and outcome
INPUT OPTIONS	None
	Does not require medication
	Requires medication
DATA ORIGIN	CEMD, M-PAG

DATA ITEM	**Hypertension history**
BASIS	To identify raised blood pressure outside of pregnancy that requires the use of anti-hypertensive medication
EXPLANATION	Clinical factor relevant to pregnancy care and outcome
INPUT OPTIONS	None
	Does not require medication
	Requires medication
DATA ORIGIN	CEMD, HOI, M-PAG

DATA ITEM	**Mental health problems**
BASIS	Known risk factor and cited in CEMD report 1997-1999
EXPLANATION	Clinical factor relevant to pregnancy care and outcome
INPUT OPTIONS	None
	Psychiatric referral
	Psychiatric admission
	Medications (+ free text to document details)
DATA ORIGIN	CDS, CEMD, HOI

B1. HISTORY & BOOKING – Past History

B2. HISTORY & BOOKING – Past Obstetric History

DATA ITEM	**Number of previous pregnancies reaching 24 weeks gestation or more**
BASIS	Part of calculation to ascertain parity
EXPLANATION	Required to produce the GROW chart for the current pregnancy and calculate the Robson Groups as described in the National Sentinel Caesarean Section Audit Report (2001).
INPUT OPTIONS	Numerical format
DATA ORIGIN	CDS, CEMD, GROW, HES, M-PAG

DATA ITEM	**Number of previous pregnancies reaching less than 24 weeks gestation**
BASIS	To assist in analysis of pregnancy loss
EXPLANATION	Required to calculate total number of pregnancies when analysing outcome data
INPUT OPTIONS	Numerical format
DATA ORIGIN	CDS, CEMD, M-PAG, RCOG

DATA ITEM	**Number of previous live births**
BASIS	Part of calculation for GROW chart
EXPLANATION	Required to produce the GROW chart details for previous pregnancies
INPUT OPTIONS	Numerical format
DATA ORIGIN	CEMD, GROW, HES, M-PAG

DATA ITEM	**Number of previous stillbirths**
BASIS	Part of calculation for GROW chart and risk assessment
EXPLANATION	Required to produce the GROW chart details for the previous pregnancies
INPUT OPTIONS	Numerical format
DATA ORIGIN	CEMD, GROW, HES, M-PAG

DATA ITEM	**Number of previous pregnancies delivered by caesarean section**
BASIS	Used as clinical indicator for risk in current pregnancy
EXPLANATION	To assist in clinical care
INPUT OPTIONS	Numerical format
DATA ORIGIN	CDS, M-PAG, RCOG

B3. HISTORY & BOOKING – Booking details

DATA ITEM	**Date of booking**
BASIS	Record of first antenatal contact
EXPLANATION	Required on documentation in the clinical area and enables calculation of age at any point in the current pregnancy
INPUT OPTIONS	DD/MM/YYYY
DATA ORIGIN	CDS, HES, M-PAG

DATA ITEM	**Partnership at booking**
BASIS	Social factor relevant to pregnancy
EXPLANATION	To assist in assessing support mechanisms at time of booking
INPUT OPTIONS	Single
	Partner
	Married
	Separated
	Divorced
	Widowed
DATA ORIGIN	CEMD, M-PAG

DATA ITEM	**Maternal height at booking**
BASIS	Part of calculation for Body Mass Index
EXPLANATION	Clinical indicator for risk
INPUT OPTIONS	Numerical format, expressed in centimetres
DATA ORIGIN	GROW, M-PAG, RCOG

DATA ITEM	**Maternal weight at booking**
BASIS	Part of calculation for Body Mass Index
EXPLANATION	Clinical indicator for risk
INPUT OPTIONS	Numerical format, expressed in kilograms
DATA ORIGIN	GROW, M-PAG, RCOG

DATA ITEM	**Body Mass Index (BMI)**
BASIS	Used as clinical indicator for health risk in current pregnancy
EXPLANATION	Automatically calculated using a formula that requires input of height and weight
INPUT OPTIONS	None - calculated field displayed as numerical format
DATA ORIGIN	CEMD, M-PAG

DATA ITEM	**Alcohol consumption**
BASIS	To ascertain possible alcohol abuse prior to and during pregnancy
EXPLANATION	Clinical factor relevant to pregnancy care and outcome
INPUT OPTIONS	None
	17 units per week
	14 units per week
	21 units per week
	22 or more units per week
DATA ORIGIN	HOI, M-PAG, RCOG

DATA ITEM	**Non-medicinal drug use**
BASIS	To ascertain any substance abuse prior to and during pregnancy
EXPLANATION	Clinical factor relevant to pregnancy care and outcome
INPUT OPTIONS	No
	Yes (+ free text to document details)
DATA ORIGIN	HOI, M-PAG

DATA ITEM	**Last menstrual period**
BASIS	To calculate an estimated delivery date at 40 weeks gestation
EXPLANATION	Used in the absence of a dating scan derived estimated date of delivery
INPUT OPTIONS	DD/MM/YYYY
DATA ORIGIN	M-PAG

DATA ITEM	**Estimated date of delivery (EDD)**
BASIS	Record of expected delivery date at 40 weeks gestation
EXPLANATION	The most accurate method of dating the pregnancy is by dating scan. The EDD is calculated according to the crown rump length (CRL) at 8-13 weeks gestation or biparietal diameter at 12-22 weeks gestation.
INPUT OPTIONS	None – Calculated value displayed as DD/MM/YYYY
DATA ORIGIN	CAR, CESDI, HES, M-PAG

DATA ITEM	**Booked place of delivery**
BASIS	Assist with monitoring changes during pregnancy, delivery or postpartum
EXPLANATION	Clinical decision related to risk factors at time of booking
INPUT OPTIONS	Hospital inside region (pick list provided)
	Hospital outside region (+ free text to document details)
	Home
	Other (+ free text to document details)
DATA ORIGIN	BAPM, CDS, HES, M-PAG

DATA ITEM	**Initial antenatal care plan**
BASIS	Intended designated professionals to provide antenatal care
EXPLANATION	Clinical decision related to risk factors at time of booking
INPUT OPTIONS	Midwife + GP shared care
	Midwife, Obstetrician + GP
	Midwife only
	Midwife + Obstetrician
	Obstetrician only
DATA ORIGIN	CDS, HES, M-PAG

C. SMOKING CESSATION AUDIT FOR PREGNANCY

DATA ITEM	**Smoker in the 12 months prior to pregnancy**
BASIS	Risk factor for current pregnancy
EXPLANATION	Requirement for DSCN 50/2002
INPUT OPTIONS	No
	Yes
DATA ORIGIN	DSC Notice 50/2002, HOI, M-PAG, SS

DATA ITEM	**Smoker at booking**
BASIS	Risk factor for current pregnancy
EXPLANATION	Requirement for DSCN 50/2002
INPUT OPTIONS	No
	Yes
DATA ORIGIN	DSC Notice 50/2002, HOI, M-PAG, SS

DATA ITEM	**Smoker at time of delivery**
BASIS	Risk factor for current pregnancy
EXPLANATION	Requirement for DSCN 50/2002
INPUT OPTIONS	No
	Yes
DATA ORIGIN	DSC Notice 50/2002, HOI, M-PAG, SS

D1. ANTENATAL SCREENING – Blood Tests

DATA ITEM	**Blood group**
BASIS	Record of group required for pregnancy care
EXPLANATION	Information required on documentation – reference for checking crossmatching
INPUT OPTIONS	A
	B
	AB
	O
DATA ORIGIN	ANSAB

DATA ITEM	**Rhesus group**
BASIS	Record of group required for pregnancy care
EXPLANATION	Information required on documentation as an indicator for Anti-D Prophylaxis NICE guidelines
INPUT OPTIONS	Positive
	Negative
DATA ORIGIN	ANSAB, HOI

DATA ITEM	**Haemoglobin at booking**
BASIS	Record of first haemoglobin status
EXPLANATION	Clinical indicator for risk of anaemia during pregnancy
INPUT OPTIONS	Numerical format, expressed as g/dl
DATA ORIGIN	ANSAB

DATA ITEM	**Haemoglobin pre-delivery**
BASIS	Record of current haemoglobin status
EXPLANATION	Clinical indicator for risk as a result of haemorrhage intrapartum/post-delivery
INPUT OPTIONS	Numerical format, expressed as g/dl
DATA ORIGIN	ANSAB

DATA ITEM	**Haemoglobinopathy screen**
BASIS	NHS Plan (DoH 2002) advocates a linked antenatal and neonatal screening programme for haemoglobinopathies and sickle cell disease by 2004
EXPLANATION	Indicator for risk of sickle cell disease and thalasaemia major in current pregnancy
INPUT OPTIONS	Normal
	Abnormal (pick list of abnormal haemoglobinopathies)
	Inconclusive
DATA ORIGIN	ANSAB

DATA ITEM	**Rubella**
BASIS	Record of rubella status in pregnancy
	Infectious Disease Standards DoH 2003
EXPLANATION	Clinical indicator for risk of acquiring an infection which is potentially hazardous to the fetus and the need for postpartum immunisation strategy
INPUT OPTIONS	Immune
	Non-immune
DATA ORIGIN	ANSAB

DATA ITEM	**Hepatitis B**
BASIS	Record of status in pregnancy
	Infectious Disease Standards DoH 2003
EXPLANATION	Clinical indicator for intrapartum alert and neonatal immunisation strategy
INPUT OPTIONS	Positive
	Negative
DATA ORIGIN	ANSAB

DATA ITEM	**Syphilis**
BASIS	Record of status in pregnancy
	Infectious Disease Standards DoH 2003
EXPLANATION	Clinical indicator of risk for maternal treatment and neonatal and family care
INPUT OPTIONS	Positive
	Negative
DATA ORIGIN	ANSAB

DATA ITEM	**HIV**
BASIS	Record of status in pregnancy
	Infectious Disease Standards DoH 2003
EXPLANATION	Clinical indicator of risk for maternal treatment and neonatal and family care
INPUT OPTIONS	Positive
	Negative
DATA ORIGIN	ANSAB

D2. ANTENATAL SCREENING – Anti-D prophylaxis

DATA ITEM	**Antibody test at 28 weeks gestation**
BASIS	NICE Technology Appraisal Guidance – No. 41
EXPLANATION	Clinical indicator for risk of rhesus haemolytic disease of the newborn (HDN)
INPUT OPTIONS	Yes
	No
DATA ORIGIN	HOI, M-PAG, NICE

DATA ITEM	**28 week vaccination**
BASIS	NICE Technology Appraisal Guidance – No. 41
EXPLANATION	Clinical indicator for risk of rhesus haemolytic disease of the newborn (HDN)
INPUT OPTIONS	Yes
	No
DATA ORIGIN	HOI, M-PAG, NICE

DATA ITEM	**34 week vaccination**
BASIS	NICE Technology Appraisal Guidance – No. 41
EXPLANATION	Clinical indicator for risk of rhesus haemolytic disease of the newborn (HDN)
INPUT OPTIONS	Yes
	No
DATA ORIGIN	HOI, M-PAG, NICE

D3. ANTENATAL SCREENING – Down's syndrome & fetal anomaly

DATA ITEM	**Down's screening offered**
BASIS	NSC Standards January 2003
EXPLANATION	Clinical indicator of risk of fetal anomalies
INPUT OPTIONS	Offer accepted
	Offer declined (+ free text to document details)
	Not offered – late booker
	Not offered
DATA ORIGIN	NSC

DATA ITEM	**Screening leaflet given**
BASIS	NSC Standards January 2003
EXPLANATION	Facilitates audit of informed choice
INPUT OPTIONS	Yes
	No
DATA ORIGIN	NSC

DATA ITEM	**Date of test**
BASIS	NSC Standards January 2003
EXPLANATION	Monitoring and audit of screening provision for local, regional and commissioning purposes
	Required to calculation of gestation and maternal age when test performed
INPUT OPTIONS	DD/MM/YYYY
DATA ORIGIN	NSC

DATA ITEM	**Type of test**
BASIS	NSC Standards January 2003
EXPLANATION	Monitoring and audit of screening provision for local, regional and commissioning purposes
INPUT OPTIONS	1st trimester serum
	Nuchal translucency
	2nd trimester serum
DATA ORIGIN	NSC

DATA ITEM	**Test result risk**
BASIS	NSC Standards January 2003
EXPLANATION	Monitoring and audit of screening provision for local, regional and commissioning purposes
INPUT OPTIONS	Numerical format
DATA ORIGIN	NSC

DATA ITEM	**Test result**
BASIS	NSC Standards January 2003
EXPLANATION	Monitoring and audit of screening provision for local, regional and commissioning purposes
INPUT OPTIONS	Lower risk
	Higher risk
DATA ORIGIN	NSC

DATA ITEM	**AFP test offer**
BASIS	NSC Standards January 2003
EXPLANATION	Monitoring and audit of screening provision for local, regional and commissioning purposes
INPUT OPTIONS	Offer accepted
	Offer declined (+ free text to document details)
	Not offered – late booker
	Not offered
DATA ORIGIN	NSC

DATA ITEM	**AFP test date**
BASIS	NSC Standards January 2003
EXPLANATION	Monitoring and audit of screening provision for local, regional and commissioning purposes
INPUT OPTIONS	DD/MM/YYYY
DATA ORIGIN	NSC

DATA ITEM	**AFP test result**
BASIS	NSC Standards January 2003
EXPLANATION	Monitoring and audit of screening provision for local, regional and commissioning purposes
INPUT OPTIONS	Lower risk
	Higher risk
DATA ORIGIN	NSC

D4. ANTENATAL SCREENING – Booking scan

DATA ITEM	**Date**
BASIS	Record of date when scan performed
EXPLANATION	Used in calculation of EDD by scan and to calculate gestation for follow up
INPUT OPTIONS	DD/MM/YYYY
DATA ORIGIN	NSC, RCOG, RCR, RUG

DATA ITEM	**Gestation**
BASIS	Record of gestation at time of booking scan
EXPLANATION	Derived from biometry details used to calculate EDD
	Establishes gestation of detection for any congenital anomalies – effectiveness of ultrasound screening
	Required for accurate calculation of Downs risk and nuchal translucency measurement or serum analytes
	Used in analysis of fetal loss
INPUT OPTIONS	None - calculated field displayed as numerical format
DATA ORIGIN	NSC, RCOG, RCR, RUG

DATA ITEM	**Fetal heart**
BASIS	Detection/screening of fetal anomalies during antenatal period
EXPLANATION	Facilitates assessment of pregnancy viability
INPUT OPTIONS	Present
	Not present
DATA ORIGIN	NSC, RCOG, RCR, RUG

DATA ITEM	**Crown rump length (CRL)**
BASIS	Record of CRL measurement at booking scan
EXPLANATION	Parameter required for calculation of gestation at scan between 8-13 weeks
INPUT OPTIONS	Numerical format, expressed in millimetres
DATA ORIGIN	NSC, RCOG, RCR, RUG

DATA ITEM	**Biparietal diameter (BPD)**
BASIS	Record of BPD measurement at booking scan
EXPLANATION	Parameter required for calculation of gestation at scan between 12-20 weeks
INPUT OPTIONS	Numerical format, expressed in millimetres
DATA ORIGIN	NSC, RCOG, RCR, RUG

DATA ITEM	**Nuchal translucency (NT)**
BASIS	Record of NT measurement at booking scan (in multiple pregnancy)
EXPLANATION	Required to determine risk of Down's according to gestation
	Predictor for other congenital anomalies
INPUT OPTIONS	Numerical format, expressed in millimetres
DATA ORIGIN	NSC, RCOG, RCR, RUG

DATA ITEM	**Neural tube defect**
BASIS	Detection/screening of fetal anomalies during antenatal period
EXPLANATION	Presence of fetal anomaly, detectable on booking scan
INPUT OPTIONS	Anencephaly
	Spina bifida
	Encephalocele
	Not seen
DATA ORIGIN	NSC, RCOG, RCR, RUG

DATA ITEM	**Abdominal wall defect**
BASIS	Detection/screening of fetal anomalies during antenatal period
EXPLANATION	Presence of fetal anomaly, detectable on booking scan
INPUT OPTIONS	Yes
	No
DATA ORIGIN	NSC, RCOG, RCR, RUG

DATA ITEM	**Other structural anomaly**
BASIS	Detection/screening of fetal anomalies during antenatal period
EXPLANATION	To record any other congenital anomalies detected
INPUT OPTIONS	Free text to document details
DATA ORIGIN	NSC, RCOG, RCR, RUG

D5. ANTENATAL SCREENING – Prenatal diagnosis

DATA ITEM	**Offer of test**
BASIS	RCOG Guidance No. 8A 2004
EXPLANATION	Monitoring of service provision and indicator of risk
INPUT OPTIONS	Offer accepted
	Offer declined (+ free text to document details)
	Not offered (+ free text to document details)
DATA ORIGIN	NSC

DATA ITEM	**Type of test**
BASIS	RCOG Guidance No. 8A 2004
EXPLANATION	Monitoring of service provision and indicator of risk
INPUT OPTIONS	Chorionic Villus Sampling
	Amniocentesis
	Fetal blood sampling
	Test not done (+ free text to document details)
DATA ORIGIN	NSC

DATA ITEM	**Why offered**
BASIS	RCOG Guidance No. 8A 2004
EXPLANATION	Monitoring of service provision and indicator of risk
INPUT OPTIONS	Higher risk
	Maternal age
	Family history
	USS indication
	Other (+ free text to document details)
DATA ORIGIN	NSC

DATA ITEM	**Test performed by**
BASIS	RCOG Guidance No. 8A 2004
EXPLANATION	Monitoring of service provision and indicator of risk
INPUT OPTIONS	Consultant (Obs & Gyn)
	Consultant (FM)
	Registrar
	Midwife
	Other (+ free text to document details)
DATA ORIGIN	NSC

DATA ITEM	**Miscarriage**
BASIS	RCOG Guidance No. 8A 2004
EXPLANATION	Monitoring of service provision and indicator of risk
INPUT OPTIONS	Yes
	No
DATA ORIGIN	NSC

DATA ITEM	**Laboratory techniques**
BASIS	RCOG Guidance No. 8A 2004
EXPLANATION	Monitoring of service provision
INPUT OPTIONS	Full karyotype
	PCR
	FISH
DATA ORIGIN	NSC

DATA ITEM	**Test date**
BASIS	RCOG Guidance No. 8A 2004
EXPLANATION	Monitoring of service provision, and gestation of pregnancy and maternal age
INPUT OPTIONS	DD/MM/YYYY
DATA ORIGIN	NSC

DATA ITEM	**Test result**
BASIS	RCOG Guidance No. 8A 2004
EXPLANATION	Monitoring of service provision and congenital anomalies
INPUT OPTIONS	Normal karyotype
	Positive Down's
	Other (+ free text to document details)
DATA ORIGIN	NSC

DATA ITEM	**Date**
BASIS	Record of date when scan performed
EXPLANATION	Used to calculate gestation at scan, and EDD
INPUT OPTIONS	DD/MM/YYYY
DATA ORIGIN	CAR, NSC, RCOG, RCR, RUG

DATA ITEM	**Gestation at scan**
BASIS	Record of gestation calculation when scan performed
EXPLANATION	Establishes gestation of detection for any congenital anomalies for effectiveness of ultrasound screening
INPUT OPTIONS	None - calculated field displayed as numerical format
DATA ORIGIN	CAR, NSC, RCOG, RCR, RUG

DATA ITEM	**Head - skull and brain**
BASIS	Detection/screening of fetal anomalies during antenatal period
EXPLANATION	Screen for congenital anomalies e.g. ventriculomegaly and monitor sensitivity of ultrasound views
INPUT OPTIONS	Normal / Abnormal / Not seen
	Pick list for abnormal option
	- Anencephaly
	- Lemon shaped skull associated with spina bifida
	- Clover-leaf – craniosynotosis
	- Ventriculomegaly (>10mm] / Hydrocephalus)
	- Banana cerebellum
	- Encephalocele
	- Cerebellar hypoplasia
	- Dandy Walker malformation
	- Other [free text]
DATA ORIGIN	CAR, NSC, RCOG, RCR, RUG

DATA ITEM	**Biparietal diameter (BPD)**
BASIS	Record of BPD measurement at time of scan
EXPLANATION	Calculate estimated fetal weight to monitor growth
INPUT OPTIONS	Numerical format, expressed in millimetres
DATA ORIGIN	CAR, NSC, RCOG, RCR, RUG

DATA ITEM	**Head circumference (HC)**
BASIS	Record of HC measurement at time of scan
EXPLANATION	Calculate estimated fetal weight to monitor growth, and detect anomalies e.g. microcephaly, hydrocephaly
INPUT OPTIONS	Numerical format, expressed in millimetres
DATA ORIGIN	CAR, NSC, RCOG, RCR, RUG

DATA ITEM	**Spine**
BASIS	Detection/screening of fetal anomalies during antenatal period
EXPLANATION	Identification of congenital anomalies, e.g. neural tube defects, and monitor sensitivity of ultrasound views
INPUT OPTIONS	Normal / Abnormal / Not seen
	Pick list for abnormal option
	- Spina bifida
	- Scholisos
	- Kyphosis
	- Other [free text]
DATA ORIGIN	CAR, NSC, RCOG, RCR, RUG

DATA ITEM	**Neck**
BASIS	Detection/screening of fetal anomalies during antenatal period
EXPLANATION	Identification of congenital anomalies and monitor sensitivity of ultrasound views
INPUT OPTIONS	Normal / Abnormal / Not seen
	Pick list for abnormal option
	- Increased Nuchal translucency (>2.6mm @ 11-13 weeks)
	- Nuchal pad (>10mm @ 20 weeks)
DATA ORIGIN	CAR, NSC, RCOG, RCR, RUG

DATA ITEM	**Face**
BASIS	Detection/screening of fetal anomalies during antenatal period
EXPLANATION	Identification of congenital anomalies, e.g. cleft lip and palate, and monitor sensitivity of ultrasound views
INPUT OPTIONS	Normal / Abnormal / Not seen
	Pick list for abnormal option
	- Cleft lip
	- Other [free text]
DATA ORIGIN	CAR, NSC, RCOG, RCR, RUG

DATA ITEM	**Chest**
BASIS	Detection/screening of fetal anomalies during antenatal period
EXPLANATION	Identification of congenital anomalies, e.g. diaphragmatic hernia, and monitor sensitivity of ultrasound views
INPUT OPTIONS	Normal / Abnormal / Not seen
	Pick list for abnormal option
	Cardiac anomaly
	- Univentricular heart
	- ASD / VSD or Fallot's
	- Transposition
	- Complex (mixed including the above)
	- Other [free text]
	- Echogenic focus
	- Other [free text]
	- Pericardial effusion

Lung anomaly

- CCAM
- Sequestration
- Other [free text]
- Pleural effusion

 Other chest anomaly [free text]

Shape of chest narrow [Y / N]

DATA ORIGIN	CAR, NSC, RCOG, RCR, RUG

DATA ITEM	**Abdomen**
BASIS	Detection/screening of fetal anomalies during antenatal period
EXPLANATION	Identification of congenital anomalies, e.g. exomphalos, and monitor sensitivity of ultrasound views
INPUT OPTIONS	Normal / Abnormal / Not seen

Pick list for abnormal option

Anterior wall defects

- Gastroscisis
- Exomphalos
- Prune-Belly
- Other [free text]

Stomach & bowel

- Stomach not seen
- Stomach or bowel in the chest
- Double bubble
- Echogenic bowel
- Dilated loops of bowel
- Other [free text]

Kidneys

- Dilated renal pelvis
- Multicystic dysplastic
- Echogenic
- Enlarged
- Absent
- Other [free text]

Bladder

- Bladder dilated
- Bladder thick-walled
- Not seen
- Other [free text]

DATA ORIGIN	CAR, NSC, RCOG, RCR, RUG

DATA ITEM	**Abdominal circumference (AC)**
BASIS	Record of AC measurement at time of scan
EXPLANATION	Calculate estimated fetal weight to monitor growth
INPUT OPTIONS	Numerical format, expressed in millimetres
DATA ORIGIN	CAR, NSC, RCOG, RCR, RUG

DATA ITEM   **Arms**

BASIS   Detection/screening of fetal anomalies during antenatal period

EXPLANATION   Identification of congenital anomalies, e.g. radial aplasia, and monitor sensitivity of ultrasound views

INPUT OPTIONS   Normal / Abnormal / Not seen (+ free text)

DATA ORIGIN   CAR, NSC, RCOG, RCR, RUG

DATA ITEM   **Legs**

BASIS   Detection/screening of fetal anomalies during antenatal period

EXPLANATION   Identification of congenital anomalies, e.g. talipes, and monitor sensitivity of ultrasound views

INPUT OPTIONS   Normal / Abnormal / Not seen (+ free text)

DATA ORIGIN   CAR, NSC, RCOG, RCR, RUG

DATA ITEM   **Femur length (FL)**

BASIS   Record of FL measurement at time of scan

EXPLANATION   Calculate estimated fetal weight to monitor growth and detect anomalies e.g. short-limbed dwarf

INPUT OPTIONS   Numerical format, expressed in millimetres

DATA ORIGIN   CAR, NSC, RCOG, RCR, RUG

DATA ITEM   **Global problem**

BASIS   Detection/screening of fetal anomalies during antenatal period

EXPLANATION   Identification of congenital anomalies, e.g. cyclopia, and monitor sensitivity of ultrasound views

INPUT OPTIONS   Normal / Abnormal / Not seen

Pick list for abnormal option

- Hydrops / generalized oedema
- Akinesis
- Other [free text]

DATA ORIGIN   CAR, NSC, RCOG, RCR, RUG

DATA ITEM   **Liquor volume**

BASIS   Detection/screening of fetal anomalies during antenatal period

EXPLANATION   Identification of congenital anomalies, e.g. renal agenesis, and monitor sensitivity of ultrasound views

INPUT OPTIONS   Normal

Abnormal

Not seen

DATA ORIGIN   CAR, NSC, RCOG, RCR, RUG

DATA ITEM	**Markers for trisomy**
BASIS	Detection/screening of fetal anomalies during antenatal period
EXPLANATION	To screen for cases of trisomy
INPUT OPTIONS	Seen / Not seen
	Pick list for seen option
	- Nuchal pad
	- Echogenic bowel
	- Choroid plexus cyst(s)
	- Echogenic focus
	- Dilated renal pelvis
	- Short femur
DATA ORIGIN	NSC, RCOG, RCR, RUG

DATA ITEM	**Placental site**
BASIS	Detection of risk factor during antenatal period
EXPLANATION	Clinical factor relevant to pregnancy care and outcome
INPUT OPTIONS	Clear of os
	Covering os
DATA ORIGIN	NICE, RUG

DATA ITEM	**Reason for loss**
BASIS	Records type of loss
EXPLANATION	Type of loss is relevant for different outcome analysis
INPUT OPTIONS	Spontaneous miscarriage
	Miscarriage after invasive procedure
	TOP
	Feticide
	Other (+ free text to document details)
DATA ORIGIN	CAR, CESDI, HES, M-PAG, SS

DATA ITEM	**Date of loss**
BASIS	Records date of loss
EXPLANATION	Relevant to date sensitive cohorts
INPUT OPTIONS	DD/MM/YYYY
DATA ORIGIN	CAR, CESDI, HES, M-PAG, SS

DATA ITEM	**Gestation**
BASIS	Records gestation of loss
EXPLANATION	Facilitates analysis of gestational cohorts and relevance to outcome
INPUT OPTIONS	Numerical format, expressed in weeks and days
DATA ORIGIN	CAR, CESDI, M-PAG, SS

DATA ITEM	**Single or multiple pregnancy**
BASIS	Records type of pregnancy
EXPLANATION	Facilitates analysis of single/multiple cohorts and relevance to outcome
INPUT OPTIONS	Single
	Multiple
DATA ORIGIN	CAR, CESDI, M-PAG, SS

F. ANTENATAL COMPLICATIONS

DATA ITEM	**Threatened miscarriage**
BASIS	Any reported vaginal bleeding during the course of pregnancy prior to 24 weeks
EXPLANATION	Clinical factor relevant to pregnancy care and potential risk factors
INPUT OPTIONS	No
	Yes (+ free text to document details)
DATA ORIGIN	M-PAG

DATA ITEM	**Antepartum haemorrhage**
BASIS	Any reported vaginal bleeding from the 28 weeks until the birth
EXPLANATION	Clinical factor relevant to pregnancy care and potential risk factors
INPUT OPTIONS	No
	Yes (+ free text to document details)
DATA ORIGIN	CEMD, M-PAG

DATA ITEM	**Vaginal infection**
BASIS	Any microbiologically proven infection during pregnancy
EXPLANATION	Clinical factor relevant to pregnancy care, potential risk factors and outcome
INPUT OPTIONS	No
	Yes (+ free text to document details)
DATA ORIGIN	M-PAG

DATA ITEM	**Urinary tract infection**
BASIS	Any microbiologically proven infection during pregnancy
EXPLANATION	Clinical factor relevant to pregnancy care, potential risk factors and outcome
INPUT OPTIONS	No
	Yes (+ free text to document details)
DATA ORIGIN	M-PAG

DATA ITEM	**Gestational diabetes**
BASIS	Glucose intolerance that develops during pregnancy and requires intervention(s) to control blood sugar metabolism
EXPLANATION	Clinical factor relevant to pregnancy care, potential risk factors and outcome
INPUT OPTIONS	No
	Yes (+ free text to document details)
DATA ORIGIN	CEMD, M-PAG

DATA ITEM	**Threatened prematurity**
BASIS	Any episode of uterine activity before 37 weeks that requires the use of tocolysis
EXPLANATION	Clinical factor relevant to pregnancy care, potential risk factors and outcome
INPUT OPTIONS	No
	Yes (+ free text to document details)
DATA ORIGIN	CEMD, M-PAG, RCOG

DATA ITEM	**Antenatal steroids**
BASIS	Steroids administered to the mother at any time during pregnancy where premature delivery is anticipated
EXPLANATION	Facilitates audit of best practice guidelines
INPUT OPTIONS	None
	Incomplete course
	Complete course – 2 doses, 17 days before to delivery
	Complete course - more than 7 days before delivery
	Multiple courses
DATA ORIGIN	BAPM, CESDI, HOI, M-PAG, N-PAG, RCOG, RCPCH

DATA ITEM	**Suspected intrauterine growth retardation (IUGR)**
BASIS	Sub optimal fetal growth suspected antenatally from ultrasound examination
EXPLANATION	Clinical factor relevant to pregnancy care, potential risk factors and outcome
INPUT OPTIONS	No
	Suspected, not confirmed
	Suspected, confirmed
DATA ORIGIN	M-PAG

DATA ITEM	**Pregnancy induced hypertension (PIH)**
BASIS	Raised blood pressure during the pregnancy requiring extra surveillance and/or medication
EXPLANATION	Clinical factor relevant to pregnancy care, potential risk factors and outcome
INPUT OPTIONS	No
	Yes (+ free text to document details)
DATA ORIGIN	CEMD, M-PAG

DATA ITEM	**Proteinuria during pregnancy**
BASIS	The presence of two or more "+" of protein on urine testing at any time
EXPLANATION	Clinical factor relevant to pregnancy care, potential risk factors and outcome
INPUT OPTIONS	No
	Yes (+ free text to document details)
DATA ORIGIN	M-PAG

DATA ITEM	**Eclampsia**
BASIS	Convulsions associated with the preeclamptic group of conditions (excluding epilepsy)
EXPLANATION	Clinical factor relevant to pregnancy care, potential risk factors and outcome
INPUT OPTIONS	No
	Yes (+ free text to document details)
DATA ORIGIN	HOI, M-PAG

DATA ITEM	**Anti-hypertensives**
BASIS	Any oral or parenteral medication administered during pregnancy
EXPLANATION	Clinical factor relevant to pregnancy care, potential risk factors and outcome
INPUT OPTIONS	No
	Yes (+ free text to document details)
DATA ORIGIN	CEMD, M-PAG, RCOG

DATA ITEM	**Thromboembolism**
BASIS	Any thrombus and/or embolism formation during pregnancy
EXPLANATION	Clinical factor relevant to pregnancy care, potential risk factors and outcome
INPUT OPTIONS	No
	Yes (+ free text to document details)
DATA ORIGIN	CEMD, M-PAG, RCOG

DATA ITEM	**Maternal trauma**
BASIS	Any significant event or injury to the mother that could affect the course of the pregnancy e.g. seatbelt injury, road traffic accident, domestic violence
EXPLANATION	Clinical factor relevant to pregnancy care, potential risk factors and outcome
INPUT OPTIONS	No
	Yes (+ free text to document details)
DATA ORIGIN	CEMD, HOI, M-PAG, RCOG

G1. BIRTH EVENT - MOTHER – Initial Details

DATA ITEM	**Care plan at the start of labour**
BASIS	To identify lead professional responsible for care at start of labour
EXPLANATION	To facilitate audit of standards of care in labour
INPUT OPTIONS	Midwife & GP shared care
	Midwife, obstetrician & GP shared care
	Midwife only
	Midwife & obstetrician only
	Obstetrician only
DATA ORIGIN	CDS, HES, M-PAG

DATA ITEM	**Reason for change of care**
BASIS	Record of reason for change of intended plan of care at any time during pregnancy and/or labour
EXPLANATION	Facilitates tracking of care and audit of best practice
INPUT OPTIONS	Clinical reasons during pregnancy
	Other reasons during pregnancy
	Clinical reasons during labour
	Other reasons during labour
DATA ORIGIN	CDS, CEMD, HES, M-PAG

DATA ITEM	**Labour onset**
BASIS	To ascertain if labour was spontaneous
EXPLANATION	To record any intervention in process of labour
INPUT OPTIONS	None – Caesarean before labour
	Spontaneous
	Induction/ripening
DATA ORIGIN	CDS, HES, M-PAG

DATA ITEM	**Method of induction**
BASIS	To record any intervention in process of labour
EXPLANATION	To facilitate audit of standards of care in labour
INPUT OPTIONS	Membrane sweep
	Prostaglandin E2
	Gemprost
	ARM
	Oxytocin
	Other
DATA ORIGIN	HES, M-PAG

DATA ITEM	**Reason for induction**
BASIS	To record decision for intervention
EXPLANATION	To facilitate audit of standards of care in labour
INPUT OPTIONS	Postdates
	PET
	Suspected IUGR
	SROM
	Past obstetric history
	Maternal pain / distress
	Other (+ free text to document details)
DATA ORIGIN	M-PAG

DATA ITEM	**Membranes ruptured before labour**
BASIS	Relevant to possible infection of baby
EXPLANATION	Clinical factor relevant to pregnancy care, risk factors and outcome
INPUT OPTIONS	No
	Yes
	Not known
DATA ORIGIN	M-PAG

DATA ITEM	**Date & time of rupture of membranes (ROM)**
BASIS	Date and time of ROM
EXPLANATION	Needed to ascertain length of time elapsed between ROM and birth
INPUT OPTIONS	DD/MM/YYYY; HH:MM (24 hour clock)
DATA ORIGIN	M-PAG

G2. BIRTH EVENT – MOTHER - Labour

DATA ITEM	**Lead professional**
BASIS	To identify most senior professional responsible for care during labour
EXPLANATION	To facilitate audit of standards of care in labour and change of lead professional
INPUT OPTIONS	Consultant obstetrician
	Registrar
	Midwife
	GP
	Other
DATA ORIGIN	HES, M-PAG

DATA ITEM	**Augmentation of labour**
BASIS	To record any intervention in process of labour
EXPLANATION	To facilitate audit of standards of care in labour
INPUT OPTIONS	ARM
	Syntocinon
	Other (+ free text to document details)
DATA ORIGIN	CDS, M-PAG

DATA ITEM	**Pain relief**
BASIS	To identify method of pain relief during labour
EXPLANATION	To facilitate audit of standards of care in labour
INPUT OPTIONS	TNS
	Inhalational analgesia
	Narcotics
	Regional – spinal
	Regional – epidural
	Regional – combined spinal/epidural
	Regional – pudendal
	Other (+ free text to document details)
DATA ORIGIN	HOI, M-PAG

DATA ITEM	**Monitoring during established labour**
BASIS	Minimum standards of care in labour (NICE)
EXPLANATION	To facilitate audit of best practice
INPUT OPTIONS	Intermittent
	Continuous
	Intermittent and continuous
	None
DATA ORIGIN	M-PAG, RCOG

DATA ITEM	**Intrapartum haemorrhage**
BASIS	Vaginal bleeding after onset of labour
EXPLANATION	To identify risk factor and facilitate audit of best practice
INPUT OPTIONS	None
	Abruption
	Other (+ free text to document details)
DATA ORIGIN	M-PAG

DATA ITEM	**Onset of established labour**
BASIS	To record basic chronology of labour
EXPLANATION	To facilitate audit of standards of care in labour
INPUT OPTIONS	DD/MM/YYYY; HH/MM (24 hour clock)
DATA ORIGIN	HES, M-PAG

DATA ITEM	**Onset of second stage**
BASIS	To record basic chronology of labour
EXPLANATION	To facilitate audit of standards of care in labour
INPUT OPTIONS	DD/MM/YYYY; HH/MM (24 hour clock)
DATA ORIGIN	M-PAG

DATA ITEM	**Onset of third stage**
BASIS	To record basic chronology of labour
EXPLANATION	To facilitate audit of standards of care in labour
INPUT OPTIONS	DD/MM/YYYY; HH:MM (24 hour clock)
DATA ORIGIN	M-PAG

DATA ITEM	**End of third stage**
BASIS	To record basic chronology of labour
EXPLANATION	To facilitate audit of standards of care in labour
INPUT OPTIONS	DD/MM/YYYY; HH:MM (24 hour clock)
DATA ORIGIN	M-PAG

DATA ITEM	**Length of first stage**
BASIS	To record basic chronology of labour
EXPLANATION	To facilitate audit of standards of care in labour
INPUT OPTIONS	Calculated field
DATA ORIGIN	HES, M-PAG

DATA ITEM	**Length of second stage**
BASIS	To record basic chronology of labour
EXPLANATION	To facilitate audit of standards of care in labour
INPUT OPTIONS	Calculated field
DATA ORIGIN	HES, M-PAG

DATA ITEM	**Length of third stage**
BASIS	To record basic chronology of labour
EXPLANATION	To facilitate audit of standards of care in labour
INPUT OPTIONS	Calculated field
DATA ORIGIN	M-PAG

DATA ITEM	**Length of time of ROM before delivery**
BASIS	Length of time elapsed between ROM and birth
EXPLANATION	Identifies risk factor and Facilitates audit of best practice
INPUT OPTIONS	Calculated field
DATA ORIGIN	M-PAG

DATA ITEM	**Most significant route of birth for mother**
BASIS	To record any major surgical intervention to mother in process of labour/birth
EXPLANATION	Identifies risk factor and facilitates audit of best practice
INPUT OPTIONS	Vaginal
	Caesarean
	Other (+ free text to document details)
DATA ORIGIN	CDS, M-PAG

DATA ITEM	**Number of babies this confinement**
BASIS	To differentiate types of pregnancy
EXPLANATION	Requirement for NN4B
	To facilitate audit of risk factors and outcome in different types of pregnancy
INPUT OPTIONS	Numerical format
DATA ORIGIN	BAPM, BNDS, CDS, HES, M-PAG, N-PAG

DATA ITEM	**Third stage management**
BASIS	To record any intervention in process of labour/birth
EXPLANATION	Identifies risk factor and facilitates audit of practice
INPUT OPTIONS	Physiological
	Active
	Other (+ free text to document details)
DATA ORIGIN	M-PAG

DATA ITEM	**Placenta**
BASIS	To record appearance of placenta
EXPLANATION	Relevant to risks of maternal complications
INPUT OPTIONS	Apparently complete
	Incomplete
	Ragged/fragmented
	Not known
	Other (+ free text to document details)
DATA ORIGIN	M-PAG

DATA ITEM	**Membranes**
BASIS	To record appearance of membranes
EXPLANATION	Relevant to risks of maternal complications
INPUT OPTIONS	Apparently complete
	Incomplete
	Ragged/fragmented
	Not known
	Other (+ free text to document details)
DATA ORIGIN	M-PAG

DATA ITEM	**Retained placenta**
BASIS	To record clinical complication
EXPLANATION	Relevant to risks of maternal complications
INPUT OPTIONS	No
	Yes
DATA ORIGIN	M-PAG

G3. BIRTH EVENT – MOTHER - Perineum

DATA ITEM	**Perineum**
BASIS	To record any intervention in process of labour/birth
EXPLANATION	Identifies risk factor and facilitates audit of practice
INPUT OPTIONS	Intact
	Episiotomy
	Perineal tear
	Labial tear
	Other (+ free text to document details)
DATA ORIGIN	HOI, M-PAG

DATA ITEM	**Degree of tear**
BASIS	To record presence/severity of tear
E**XPLANATION**	Identifies risk factor and facilitates audit of practice
INPUT OPTIONS	None
	1st degree
	2nd degree
	3rd degree
	4th degree
DATA ORIGIN	HOI, M-PAG

DATA ITEM	**Perineal repair**
BASIS	To record method of repair
EXPLANATION	Facilitates audit of practice
INPUT OPTIONS	Not sutured
	Simple repair
	Complex repair
DATA ORIGIN	M-PAG

DATA ITEM	**Suture material**
BASIS	Identification of suture material
EXPLANATION	Facilitates audit of practice
INPUT OPTIONS	Vicryl
	Vicryl rapide
	Dexon
	Catgut
	Other (+ free text to document details)
DATA ORIGIN	M-PAG

DATA ITEM	**Repaired by (status)**
BASIS	Identification of grade of professional
EXPLANATION	Facilitates audit of practice
INPUT OPTIONS	Midwife
	Student midwife
	Consultant
	Registrar
	Other (+ free text to document details)
DATA ORIGIN	M-PAG

DATA ITEM

BASIS

EXPLANATION

G4. BIRTH EVENT – MOTHER – Immediate Postpartum

DATA ITEM	**Significant early postpartum haemorrhage (PPH)**
BASIS	Any estimated blood loss >500mls or that which results in hypovolaemic shock within 2 hours of delivery
EXPLANATION	Identifies risk factor and facilitates audit of practice
INPUT OPTIONS	Yes
	No
	Not known
DATA ORIGIN	CEMD, HOI, M-PAG, RCOG

DATA ITEM	**Blood loss in labour, delivery & early PPH**
BASIS	Records total amount of blood loss
EXPLANATION	Relevant to risks of maternal complications
INPUT OPTIONS	Numerical format, expressed in millimetres
DATA ORIGIN	CEMD, M-PAG

DATA ITEM	**Skin to skin contact**
BASIS	Record of opportunity for bonding
EXPLANATION	Possible effects on maternal/child relationship and likelihood of breastfeeding
INPUT OPTIONS	Offer accepted
	Offer declined
	Not offered
DATA ORIGIN	M-PAG, SS

DATA ITEM	**Length of contact**
BASIS	Length of time taken when offer accepted
EXPLANATION	Possible effects on maternal/child relationship and likelihood of breastfeeding
INPUT OPTIONS	Numerical format, expressed in minutes
DATA ORIGIN	M-PAG

DATA ITEM	**Put to breast**
BASIS	Record of opportunity to breastfeed as soon as possible following delivery
EXPLANATION	Possible effects on maternal/child relationship and likelihood to succeed with breastfeeding
INPUT OPTIONS	Offer accepted
	Offer declined
	Not offered
DATA ORIGIN	HOI, M-PAG, SS

DATA ITEM	**Transfer date**
BASIS	Date of transfer/end of labour care episode
EXPLANATION	Facilitates tracking and calculation on care episodes
INPUT OPTIONS	DD/MM/YYYY
DATA ORIGIN	HES, M-PAG

DATA ITEM	**Transfer destination**
BASIS	Denotes place of care following delivery
EXPLANATION	Facilitates analysis of good practice guidelines and tracking of care episodes
INPUT OPTIONS	Postnatal Ward
	Home
	Mother & baby Unit
	ITU
	HDU
	Died
	Other (+ free text for details)
DATA ORIGIN	HES, HOI

H1. BIRTH DETAILS – BABY - Delivery

DATA ITEM	**Place of delivery**
BASIS	Location of place of delivery of baby
EXPLANATION	Requirement for NN4B
INPUT OPTIONS	Hospital inside region (pick list)
	Hospital outside region (+ free text to document details)
	Home
	Other (+ free text to document details)
DATA ORIGIN	BAPM, BNDS, CDS, CESDI, HES, M-PAG, N-PAG, SS

DATA ITEM	**Hospital code**
BASIS	Unique identifier denoting the hospital
EXPLANATION	Requirement for NN4B
	Facilitates audit and tracking of patient care
INPUT OPTIONS	Linked to National Hospital database
DATA ORIGIN	BNDS, CDS, CESDI, HES, M-PAG, N-PAG

DATA ITEM	**Date & time of birth**
BASIS	Date and time of birth of the baby
EXPLANATION	Requirement for NN4B
	Required to derive patient age for analysis by age at admission or discharge, for screening, to assist clinical care
INPUT OPTIONS	DD/MM/YYYY; HH:MM (24 hour clock)
DATA ORIGIN	BAPM, BNDS, CDS, CESDI, HES, M-PAG, N-PAG

DATA ITEM	**Gestation at delivery**
BASIS	Number of weeks of age of baby at time of delivery calculated by first trimester dating ultrasound scan or menstrual date
EXPLANATION	Requirement for NN4B
	A determinant of outcome
INPUT OPTIONS	Calculated field
DATA ORIGIN	BAPM, BNDS, CDS, CESDI, HES, HOI, M-PAG, N-PAG

DATA ITEM	**Lie/presentation before birth**
BASIS	Position of baby prior to birth
EXPLANATION	Requirement for NN4B
	Relevant to type of birth offered and facilitates audit of best practice
INPUT OPTIONS	Cephalic
	Breech
	Transverse/oblique
	Not known
DATA ORIGIN	BAPM, BNDS, HES, M-PAG

DATA ITEM	**Delivery mode**
BASIS	Mode of delivery for baby
EXPLANATION	Requirement for NN4B
	Facilitates audit of practice
INPUT OPTIONS	Spontaneous vaginal
	Breech vaginal
	Ventouse
	Ventouse (after failed forceps)
	Forceps (low cavity)
	Forceps (mid cavity/rotational)
	Forceps (after failed ventouse)
	Elective caesarean
	Scheduled caesarean
	Urgent caesarean
	Urgent caesarean (after failed ventouse)
	Urgent caesarean (after failed forceps)
	Urgent caesarean (after failed forceps and ventouse)
	Emergency caesarean
DATA ORIGIN	BNDS, HES, HOI, M-PAG, N-PAG

DATA ITEM	**Analgesia / Anaesthesia for birth**
BASIS	Identifies analgesia/anaesthesia used for birth
EXPLANATION	Facilitates audit of practice, may be relevant to complications and effect on mother/infant bonding
INPUT OPTIONS	Epidural
	Spinal
	Caudal
	Pudendal Block
	Local Anaesthetic Infiltrate
	General anaesthetic
	Other (free text)
DATA ORIGIN	CDS, HES, M-PAG

DATA ITEM	**Caesarean primary reason**
BASIS	Records reason for decision
EXPLANATION	Facilitates audit of best practice and trends in care
INPUT OPTIONS	*Fetal*
	- Not cephalic
	- Multiple pregnancy
	- Baby size problem
	- Compromise, presumed
	- Cord prolapse
	- Chorioamnionitis
	- Other (+ free text to specify)
	Maternal
	- Placenta praevia
	- APH / Intrapartum haemorrhage
	- Plantal abruption
	- Preeclampsia / Eclampsia / HELLP
	- Medical disease
	- Failure to progress
	- Previous caesarean section
	- Previous poor outcome
	- Previous emotional/physical traumatic vaginal delivery
	- Previous infertility
	- Uterine rupture
	- Maternal request
	- Other (+ free text to specify)
DATA ORIGIN	HES, M-PAG

DATA ITEM	**Live or stillbirth**
BASIS	Records outcome of pregnancy
EXPLANATION	Requirement for NN4B
	Facilitates audit on outcome
INPUT OPTIONS	Live
	Antepartum stillbirth
	Intrapartum stillbirth
	Indeterminate stillbirth
	Alive but died
DATA ORIGIN	BAPM, BNDS, CDS, HES, HOI, M-PAG, SS

DATA ITEM	**Gender**
BASIS	Phenotypic classification of appearance of sex of baby at delivery
EXPLANATION	Required for NN4B
	Facilitates analysis of outcome by sex
INPUT OPTIONS	Male
	Female
	Not specified
	Not known
DATA ORIGIN	BAPM, BNDS, CDS, CESDI, HES, M-PAG, N-PAG

DATA ITEM	**Birth weight**
BASIS	The first weight of the baby obtained after birth recorded in grams, ideally within an hour of delivery
EXPLANATION	Requirement for NN4B
	Indicator of pregnancy outcome
	Major risk factor for neonatal mortality and morbidity
	Required to plan perinatal services for high risk babies
INPUT OPTIONS	Numerical format, expressed in grams
DATA ORIGIN	BAPM, BNDS, CDS, CESDI, HES, HOI, M-PAG, N-PAG, SS

DATA ITEM	**Birth order**
BASIS	The sequence in which the baby was born in a multiple birth
EXPLANATION	Requirement for NN4B
	To analyse pregnancy outcome according to birth order and to identify the individual baby resulting from a multiple birth pregnancy
INPUT OPTIONS	Singleton
	First of twins
	Second of twins
	First of triplets, etc.
DATA ORIGIN	BAPM, BNDS, CDS, CESDI, HES, M-PAG

DATA ITEM	**Customised centile**
BASIS	Customised birth Centile for baby
EXPLANATION	Determines potential risk factors for baby and facilitates audit of outcome
INPUT OPTIONS	Calculated field
DATA ORIGIN	GROW, M-PAG, RCOG

DATA ITEM	**NHS Baby Number**
BASIS	Unique identifier for baby
EXPLANATION	Produced on submission of NN4B data - facilitates record linkage
INPUT OPTIONS	Numerical – generated from NN4B notification
DATA ORIGIN	BAPM, BNDS, CDS, CESDI, HES, M-PAG, N-PAG

DATA ITEM	**Ethnic Origin**
BASIS	Classification by origin to support medical data
EXPLANATION	The current ONS/Census groupings do not meet requirements for medical data. In the perinatal field, this includes detailing baby's ethnic origin when assessing birth centile and identifying those at risk for haemoglobinopathy screening. The GEO classification is now used across the West Midlands. However, the options do map to ONS requirements for NN4B submissions.
INPUT OPTIONS	Pick list within each group

Africa
-   North Africa
-   Sub Sahara
-   Other

Asia
-   India
-   Pakistan
-   Bangladesh
-   China
-   Far East Asia – Other
-   South East Asia
-   Other

Caribbean

Europe
-   Britain
-   Ireland
-   Northern Europe
-   Western Europe
-   Southern Europe
-   Other

Middle East

Other

DATA ORIGIN	BNDS, CDS, HES, M-PAG, N-PAG

H2. BIRTH DETAILS – BABY – Complications of labour & birth

DATA ITEM	**Suspected fetal compromise (distress)**
BASIS	Records possible clinical complication
EXPLANATION	Aids in determination of potential risk factors for baby and facilitates audit of practice
INPUT OPTIONS	No
	Yes
DATA ORIGIN	M-PAG

DATA ITEM	**Liquor condition**
BASIS	Records clinical observation of liquor
EXPLANATION	Aids in determination of potential risk factors for baby and facilitates audit of practice
INPUT OPTIONS	Clear / straw coloured
	Grade 1
	Grade 2
	Grade 3
	Other discolouration
	No liquor seen
	Not known
DATA ORIGIN	M-PAG

DATA ITEM	**Cord prolapse**
BASIS	Records possible clinical complication
EXPLANATION	Aids in determination of potential risk factors for baby and facilitates audit of practice
INPUT OPTIONS	No
	Yes
	Not known
DATA ORIGIN	M-PAG

DATA ITEM	**Shoulder problem**
BASIS	Records possible clinical complication
EXPLANATION	Aids in determination of potential risk factors for baby and facilitates audit of practice
INPUT OPTIONS	None
	Minor
	Dystocia
DATA ORIGIN	M-PAG

H3. BIRTH DETAILS – BABY – Professionals for delivery

DATA ITEM	**Grade**
BASIS	Record of professional responsible for delivery
EXPLANATION	Facilitates audit of practice
INPUT OPTIONS	Midwife
	Student midwife
	Consultant
	Registrar
	GP
	Other (free text)
DATA ORIGIN	CDS, HES, M-PAG

DATA ITEM	**Surname of person notifying birth**
BASIS	Personal identifier
EXPLANATION	Requirement for NN4B
INPUT OPTIONS	Free text
DATA ORIGIN	BNDS, M-PAG

DATA ITEM	**Forename of person notifying birth**
BASIS	Personal identifier
EXPLANATION	Requirement for NN4B
INPUT OPTIONS	Free text
DATA ORIGIN	BNDS, M-PAG

DATA ITEM	**Apgar score at 1 minute of age of baby**
BASIS	An assessment of the baby's physical condition at birth
EXPLANATION	Low apgar score indicates need for resuscitation and is related to outcome
INPUT OPTIONS	Numerical format
DATA ORIGIN	HES, M-PAG, N-PAG

DATA ITEM	**Apgar score at 5 minutes of age of baby**
BASIS	An assessment of the baby's physical condition at birth
EXPLANATION	Low apgar score indicates need for resuscitation and is related to outcome
INPUT OPTIONS	Numerical format
DATA ORIGIN	HES, M-PAG, N-PAG

DATA ITEM	**Professionals present at resuscitation**
BASIS	A record of personnel present at resuscitation
EXPLANATION	Staff trained in neonatal resuscitation favourably influence the management and outcome of an ill or preterm baby requiring resuscitation
INPUT OPTIONS	Midwife
	Neonatal Nurse
	ANNP
	SHO
	Specialist Registrar
	Consultant
	Other
DATA ORIGIN	CESDI, M-PAG, N-PAG

DATA ITEM	**Type of resuscitation**
BASIS	Identifies the method used to assist baby in establishing effective breathing
EXPLANATION	An indirect measure of the baby's physical condition at birth and response of professional present at birth to infants condition
INPUT OPTIONS	None
	Basic
	Advanced
DATA ORIGIN	CDS, HES, M-PAG, N-PAG

DATA ITEM	**Intermittent Positive Pressure Ventilation (IPPV)**
BASIS	Identifies method of delivering respiratory support
EXPLANATION	The need for endotracheal IPPV is an indicator of continuing need for airway support
INPUT OPTIONS	Face mask
	Endotracheal tube
	Both
	None
DATA ORIGIN	HES, M-PAG, N-PAG

DATA ITEM	**External cardiac massage given**
BASIS	Record of use of this procedure
EXPLANATION	Facilitates audit of resuscitation practice and best practice guidelines
INPUT OPTIONS	Yes
	No
DATA ORIGIN	M-PAG, N-PAG

DATA ITEM	**Drugs given**
BASIS	Record of use of any drugs for resuscitation
EXPLANATION	Facilitates audit of resuscitation practice and best practice guidelines
INPUT OPTIONS	Adrenaline
	Bicarbonate
	Volume
	Glucose
	Other (+ free text to document details)
DATA ORIGIN	HES, M-PAG, N-PAG

DATA ITEM	**Intubated at delivery**
BASIS	Identifies whether baby required endotracheal intubation
EXPLANATION	The need for intubation is an indicator of need for continuing airway and /or ventilatory support
INPUT OPTIONS	No
	Yes
DATA ORIGIN	HES, M-PAG, N-PAG

DATA ITEM	**Age at intubation**
BASIS	Records age at which baby was intubated
EXPLANATION	A measure of the time taken to secure baby's airway during resuscitation and a means of recording compliance with RCPCH RDS guideline and surfactant administration in appropriate cohort
INPUT OPTIONS	MM (to nearest minute)
DATA ORIGIN	M-PAG, N-PAG

H5. BIRTH DETAILS – BABY – Congenital anomalies (at birth)

DATA ITEM	**Congenital anomaly**
BASIS	Presence of a congenital anomaly excluding those detailed in EUROCAT
EXPLANATION	To measure incidence of congenital anomaly in babies born
INPUT OPTIONS	No
	Yes
	Suspected
DATA ORIGIN	BAPM, CAR, M-PAG, N-PAG

DATA ITEM	**Date of notification**
BASIS	Record of notification
EXPLANATION	Facilitates audit of process and dissemination of information to parents
INPUT OPTIONS	DD/MM/YYYY
DATA ORIGIN	CAR, M-PAG, N-PAG

DATA ITEM	**Details of anomaly**
BASIS	Clinical factor relevant to clinical care
EXPLANATION	Determines potential risk factors and outcome for baby
INPUT OPTIONS	Abnormal karyotype
	Central nervous type
	Cardiac / CVS
	Renal & urogenital
	Skeletal / limb
	Head & neck
	Chest & abdominal
	Syndrome
	Other
DATA ORIGIN	CAR, M-PAG, N-PAG

H6. BIRTH DETAILS – BABY – Transfer details

DATA ITEM	**Vitamin K**
BASIS	Prevention of Vitamin K deficient bleeding of the newborn (VKDB)
EXPLANATION	Vitamin K administration prevents VKDB
INPUT OPTIONS	Given IV
	Given IM
	Given orally – no further doses needed
	Given orally – further doses needed
	Not given
DATA ORIGIN	DOH PL/CMO/98/3; DOH PL/CMO/98/4; DOH/HMSO 2000, M-PAG, N-PAG

DATA ITEM	**Intended method of feeding**
BASIS	Method of choice at the time of birth
EXPLANATION	Possible effects on maternal/child relationship and facilitates calculation of breast feeding rates
INPUT OPTIONS	Breast
	Bottle
	Breast and bottle
	Other (+ free text to document details)
DATA ORIGIN	M-PAG, N-PAG, SS

DATA ITEM	**Transfer date**
BASIS	Date of transfer/end of care episode
EXPLANATION	Facilitates tracking and calculation on care episodes
INPUT OPTIONS	DD/MM/YYYY
DATA ORIGIN	HES, M-PAG

DATA ITEM	**SCBU / NICU admission**
BASIS	Records necessity for transfer of care
EXPLANATION	Assists with audit of babies requiring admission to SCBU/NICU
INPUT OPTIONS	No
	Yes
DATA ORIGIN	BAPM, HES, HOI, M-PAG

DATA ITEM	**Usual address**
BASIS	To provide follow up address for continuance of clinical care
EXPLANATION	Requirement for NN4B
INPUT OPTIONS	Free text
DATA ORIGIN	BNDS, M-PAG, N-PAG

I. POSTNATAL DATA - MOTHER

DATA ITEM	**Antibiotic administration**
BASIS	Records administration of antibiotics following caesarean section
EXPLANATION	Facilitates audit of best practice guidelines
INPUT OPTIONS	No
	Yes
DATA ORIGIN	CEMD

DATA ITEM	**Thromboprophylaxis given**
BASIS	Records administration of thrombolytic agents
EXPLANATION	Facilitates audit of best practice guidelines
INPUT OPTIONS	None
	Increased risk factors (e.g. previous history, high BMI)
	Following caesarean section
	On-going administration (due to episode during this pregnancy)
DATA ORIGIN	CEMD

DATA ITEM	**Medical complications**
BASIS	Records medical complications relevant to outcome
EXPLANATION	Facilitates audit of best practice guidelines
INPUT OPTIONS	Hypertension
	Fits
	Clotting disorder
	Late PPH
	Other (+ free text for details)
DATA ORIGIN	CEMD, HOI

DATA ITEM	**Surgical complications**
BASIS	Records surgical complications relevant to outcome
EXPLANATION	Facilitates audit of best practice guidelines
INPUT OPTIONS	Anaesthetic after delivery
	ERPC
	Other (+ free text for details)
DATA ORIGIN	CDS, CEMD

DATA ITEM	**Severe postnatal depression / Psychotic complications**
BASIS	Records episodes relevant to mental health and outcome
EXPLANATION	Facilitates audit of best practice guidelines
INPUT OPTIONS	None
	Psychiatric referral
	Psychiatric admission
	Medications (+ free text to document details)
DATA ORIGIN	CEMD, HOI

DATA ITEM	**End of care episode**
BASIS	Date denoting change of care episode
EXPLANATION	Facilitates tracking of care episodes and calculation of duration
INPUT OPTIONS	DD/MM/YYYY
DATA ORIGIN	CDS, HES, M-PAG

DATA ITEM	**Transfer details**
BASIS	Record of next episode of care
EXPLANATION	Facilitates tracking of care episodes and auditing of practice
INPUT OPTIONS	Home
	Mother & baby Unit
	ITU
	HDU
	Died
	Other (+ free text for details)
DATA ORIGIN	CDS, HES, HOI

J. MATERNAL DEATH DATA

DATA ITEM	**Date & time of death**
BASIS	Record of the date and time of death of the mother
EXPLANATION	Used in audit of maternal mortality
INPUT OPTIONS	DD/MM/YYYY; HH:MM (24 hour clock)
DATA ORIGIN	CEMD, HOI

DATA ITEM	**Cause of death**
BASIS	A description of cause of death of a mother
EXPLANATION	An important outcome indicator
INPUT OPTIONS	As per Medical certificate of cause of death ONS
DATA ORIGIN	CESDI, HOI, N-PAG, ONS

K. POSTNATAL DATA - BABY

DATA ITEM	**Discharge date**
BASIS	Date denoting end of care episode
EXPLANATION	Required to derive length of stay
INPUT OPTIONS	DD/MM/YYYY
DATA ORIGIN	BAPM, CDS, HES, M-PAG, N-PAG

DATA ITEM	**Discharge weight**
BASIS	Weight of baby at time of discharge
EXPLANATION	An important outcome measure of neonatal care. Has resource implications.
INPUT OPTIONS	Numerical format, expressed in grams
DATA ORIGIN	BAPM, ENN, M-PAG, N-PAG

DATA ITEM	**Feeding method**
BASIS	Method of choice at time of discharge
EXPLANATION	Facilitates calculation of breastfeeding rates and audit of practice
INPUT OPTIONS	Breast
	Bottle
	Breast and bottle
	Other (free text)
DATA ORIGIN	HOI, M-PAG, N-PAG, SS

DATA ITEM	**Date & time of first feed**
BASIS	Record of first feed
EXPLANATION	Enables calculation for timing of bloodspot test
INPUT OPTIONS	DD/MM/YYYY; HH:MM (24 hour clock)
DATA ORIGIN	M-PAG, SS

DATA ITEM	**Jaundiced**
BASIS	Records presence of jaundice before discharge from place of birth
EXPLANATION	Assists in identifying potential risk factors for baby
INPUT OPTIONS	Yes
	No
DATA ORIGIN	HES, M-PAG

DATA ITEM	**Highest plasma bilirubin**
BASIS	Record of highest plasma bilirubin reading
EXPLANATION	Assists in identifying potential risk factors for baby
INPUT OPTIONS	Numerical format, expressed in micromol/l
DATA ORIGIN	HES, M-PAG

DATA ITEM	**Date & time of highest plasma bilirubin**
BASIS	Record of date and time of the test
EXPLANATION	Enables calculation of age at which test was taken and assists in identifying potential risk factors for baby
INPUT OPTIONS	DD/MM/YYYY; HH:MM (24 hour clock)
DATA ORIGIN	M-PAG

DATA ITEM	**Date & time of discharge examination**
BASIS	Record of when examination took place
EXPLANATION	Enables calculation of age at examination and audit of practice
INPUT OPTIONS	DD/MM/YYYY; HH:MM (24 hour clock)
DATA ORIGIN	M-PAG, NSC

DATA ITEM	**Result**
BASIS	Records outcome of examination
EXPLANATION	Determines potential risk factors for baby and monitor quality of service provision
INPUT OPTIONS	Normal
	Abnormal (+ free text to document details)
DATA ORIGIN	M-PAG, NSC

DATA ITEM	**Hip examination**
BASIS	Records that examination has taken place
EXPLANATION	Determines potential risk factors for baby and audit of service provision for those at risk
INPUT OPTIONS	Normal
	Abnormal (+ free text to document details)
DATA ORIGIN	HES, M-PAG, NSC

DATA ITEM	**Undescended testes**
BASIS	Records that examination has taken place
EXPLANATION	Determines potential risk factors for baby and audit of service provision for those at risk
INPUT OPTIONS	Yes / No
DATA ORIGIN	M-PAG, NSC

DATA ITEM	**Neonatal Bloodspot Test**
BASIS	Record that test has been performed
EXPLANATION	Facilitates audit of practice and adherence to guidelines
INPUT OPTIONS	Yes / No
DATA ORIGIN	M-PAG, N-PAG, NSC

DATA ITEM	**Date of neonatal bloodspot test**
BASIS	Record of when the test was performed
EXPLANATION	Enables calculation of age at test and audit of practice
INPUT OPTIONS	DD/MM/YYYY
DATA ORIGIN	M-PAG, N-PAG, NSC

DATA ITEM	**Universal Neonatal Hearing screen**
BASIS	Records that test has been performed
EXPLANATION	Facilitates audit of practice and adherence to guidelines
INPUT OPTIONS	Yes (+ free text to document details)
	No
DATA ORIGIN	BAPM, M-PAG, N-PAG, NSC

L. NEONATAL DEATH DATA

DATA ITEM	**Date & time of death**
BASIS	Record of the date and time of death of the baby
EXPLANATION	Used to calculate duration of survival. An important outcome indicator, which has resource implications
INPUT OPTIONS	DD/MM/YYYY; HH:MM (24 hour clock)
DATA ORIGIN	BAPM, CESDI, HOI, N-PAG

DATA ITEM	**Post Mortem examination**
BASIS	Record of whether post mortem performed and whether efforts made to obtain consent for same
EXPLANATION	Used to determine post mortem rate and refusal rate
INPUT OPTIONS	Consent given
	Consent declined
	Consent not requested
	Other
DATA ORIGIN	BAPM, CESDI, N-PAG

DATA ITEM	**Cause of death**
BASIS	A description of cause of death of a baby
EXPLANATION	An important outcome indicator
INPUT OPTIONS	As per Medical certificate of cause of death ONS
DATA ORIGIN	CESDI, N-PAG, ONS

APPENDIX 1 – ETHNICITY MAPPING: GEO -> ONS

[RULE 1]

If no selection is made from the GEO options, the transformation selects the ONS "Not Known" option

[RULE 2]

If one selection is made from the GEO options, the transformation to ONS looks like the following:

Africa – North	maps to	Black African
Africa – Sub-sahara	maps to	Black African
Africa – Other	maps to	Black African
Asia – India	maps to	Indian
Asia – Pakistan	maps to	Pakistani
Asia – Bangladesh	maps to	Bangladeshi
Asia – China	maps to	Chinese
Asia – Far East	maps to	Other
Asia - South East	maps to	Other
Asia – Other	maps to	Other
Caribbean	maps to	Black Caribbean
Europe – Britain	maps to	White
Europe – Ireland	maps to	White
Europe – Northern	maps to	White
Europe – Western	maps to	White
Europe – Southern	maps to	White
Europe – Other	maps to	White
Middle East	maps to	Other
Other	maps to	Other

Example: GEO: African – North -> ONS: Black African

Example: GEO: African – Other -> ONS: Black African

Example: GEO: Asia – India -> ONS: Indian

Example: GEO: Asia – Other -> ONS: Other

Example: GEO: Middle East - > ONS: Other

[RULE 3]

If multiple selections are made from the GEO options, the transformation to ONS follows the process outlined below:

I. For each single selection made, perform the transformation as if that was the only selection
II. Compare all the resulting ONS values together. If they are all the same, use that ONS value, but if they are different, transform to "ONS: Mixed"

Example: GEO: African – North + GEO: African – Other -> ONS: Black African + ONS: Black African -> ONS: Black African

Example: GEO: African – North + GEO: Asia – India -> ONS: Black African + ONS: Indian -> ONS: Mixed

Example: GEO: Asia – Other + GEO: Middle East -> ONS: Other + ONS: Other -> ONS: Other

APPENDIX 2 – REFERENCE MATERIAL

BNDS   http://nww.nhsia.nhs.uk/nn4b/pages/bndatasetv4.0.doc

CDS   http://nww.nhsia.nhs.uk/datastandards/pages/cds_manual.asp

CEMD/CESDI   http://www.cemach.org.uk/publications.htm

ENN   http://www.euroneonet.com/

GROW   http://www.gestation.net/main.htm

HES   http://www.dh.gov.uk/PublicationsAndStatistics/Statistics/HospitalEpisodeStatistics/fs/en

M-PAG/N-PAG   http://www.perinate.org/manners/index_manners.htm

NICE   http://www.nice.org.uk/cat.asp?c=61439

NSC   http://www.nelh.nhs.uk/screening/dssp/standards.html

RCOG   http://www.rcog.org.uk/guidelines.asp?PageID=108

RCPCH   http://www.rcpch.ac.uk/publications/clinical_docs.html

RCR   http://www.rcr.ac.uk/radiopubsearch.asp?PageID=238

RUG   http://www.perinate.org/ultrasound/index_us.htm

SureStart   http://www.surestart.gov.uk/

British Association of Perinatal Medicine (1997) **The BAPM Neonatal Dataset - for the annual reporting of data by neonatal intensive care units** BAPM: London

Tackling Health Inequalities http://www.doh.gov.uk/healthinequalities

Troop P, Goldacre M, Mason A, Cleary R (eds) **Health Outcome Indicators: Normal Pregnancy and Childbirth. Report of a working group to the Department of Health.** Oxford: National Centre for Health Outcomes Development, 1999.

Unicef UK Baby Friendly Initiative http://www.babyfriendly.org.uk/commun.htm#

Why Mothers Die 1997-1999. The fifth report of the Confidential Enquiries into Maternal Deaths in the United Kingdom. RCOG Press December 2001.